

## IRUFIRE REAL B-s1,d0 AQUA

**PRODUCT DESCRIPTION:** Process consisting of two component water-based products, an aminic clear primer and an acrylic clear topcoat. This process has been developed for finishing not fire retardant treated woods and wooden surfaces and obtaining coated products classified as **B-s1,d0** according to EN 13501-1 Standard (Euroclasses) for walls and ceilings.

The process is composed of:

- **IRUFIRE PRIMER IAP-1** (2:1 with **HARDENER IRUFIRE AQUA PRIMER**): 380-420 gr/m<sup>2</sup> wet must be applied distributed in 2 coats at an interval of 4h-5h wet on wet (it is not necessary to be sanded between them). Allow to cure during approximately 48 hours at 10-30°C (or 4 hours at 20-30°C and 5 hours at a temperature of aprox. 50°C) and then sand the surface with flexible 280-320 grit sandpaper. Blow with pressurized air before applying the **IRUFIRE TOP COAT IAT-1**.

- **IRUFIRE TOP COAT IAT-1** (5:1 with **HARDENER IRUFIRE AQUA TOPCOAT**). 100-120 gr/m<sup>2</sup> wet of **IRUFIRE TOP COAT IAT-1** must be applied after sanding process of the last layer of **IRUFIRE PRIMER IAP-1**.

### GENERAL CHARACTERISTICS:

- Easy to apply with any type of spraying equipment (aerographic, airmix and airless).
- **The process is totally free of halogenated compounds (chlorinated or brominated).**
- It has good wetting properties, transparency, thixotropy, smoothness, appearance and uniformity of matting.
- Good resistance to abrasion, rubbing and scratching.
- Good covering power.
- Excellent fireproofing contribution to all types of wooden supports. Once the process is applied confers a final classification of B-s1,d0 according the standard EN 13501-1.

### PHYSICAL PARAMETERS (IRUFIRE PRIMER IAP-1 at 20 °C)

- Mixture: <b>IRUFIRE PRIMER IAP-1 / HARDENER IRUFIRE AQUA PRIMER:</b> .....	2/1
- Varnish viscosity: .....	21-25"
- Mixture viscosity, Ford cup No.4:.....	22-28"
- Pot-life:.....	Aprox. 12 hours
- Solids of the mixture:.....	59-62%
- Appearance of dry film: .....	Clear.
- Storage (unopened package):.....	12 months.

### CURING TIME (IRUFIRE PRIMER IAP-1 100 gr/m<sup>2</sup> at 20°C):

- Dust-free drying:.....	2 hours.
- Touch drying:.....	16 hours.
- Overvarnishing: .....	48 hours

REVIEW: 1/ 10-2020

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**PHYSICAL PARAMETERS (IRUFIRE TOP COAT IAT-1 at 20 °C)**

- Mixture relation: <b>IRUFIRE TOP COAT IAT-1/ HARDENER IRUFIRE AQUA TOP COAT:</b> .....	5/1
- Varnish viscosity: .....	75-105"
- Pot-life:.....	Aprox. 3 hours
- Solids of the mixture:.....	37-40%
- Appearance of dry film: .....	Clear.
- Storage (unopened package):.....	12 months.

**CURING TIME (IRUFIRE TOP COAT IT-1 100 gr/m<sup>2</sup>):**

- Dust-free drying:.....	30-40 min
- Touch drying:.....	3-4 hours

**APPLICATION:**

- **Support:** All types of veneers and woods, commonly used for coating walls and ceilings. Do not apply on woods containing over 12% of humidity.
- **Preparation of the support:** Remove the residues of sandpapering.
- **Application conditions:** Temperature: 10-30°C, relative humidity: 50-70%, and good ventilation.
- **Application:** Homogenize the varnishes and mixtures prior to use for 1 minute. Both, **IRUFIRE PRIMER IAP-1** and **IRUFIRE TOP COAT IAT-1** once mixed with their respective hardener are ready to be applied. 5% of water can be added to adjust the application viscosities.
- **Process:** To satisfy the standard UNE-EN 13501-1 and obtain **B-s1,d0 classification** the following process must be applied: 380-420 gr/m<sup>2</sup> of **IRUFIRE PRIMER IAP-1** (2:1 with **HARDENER IRUFIRE AQUA PRIMER**) in 2 coats at intervals of 4-5 hours between them. Allow to cure for 48 hours at 10-30°C (or 4 hours at 20-30°C and 5 hours at a temperature of aprox. 50°C) and sand it gently with flexible 280-320 grit sandpaper. Blow with pressurized air and then apply 100-120 gr/m<sup>2</sup> of **IRUFIRE TOP COAT IAT-1** (5:1 with **HARDENER IRUFIRE AQUA TOP COAT**).

**OBSERVATIONS:**

The **IRUFIRE REAL B-s1,d0 AQUA** process has been tested on chipboard support which fulfills the requirements of “standard substrate” defined in the standard EN 13238. The B-s1,d0 classification obtained by this process can be extrapolated to any substrate of wood or wooden derivative with a density equal to or higher than 510kg/m<sup>3</sup>. The same classification B-s1,d0 is obtained for this process applied on any A2-s1,d0 or A1 classified substrates. It is important to have effective local ventilation and appropriate personal protective equipment (PPE). Details are given in our safety data sheets.

**Standards that intervene in the classification:**

- EN 13238:2010: Reaction to fire tests for building products. Conditioning procedures and general rules for selection of substrates.
- EN 13823:2010 + A1:2014: Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item.
- EN ISO 11925-2:2010: Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 2: Single-flame source test.
- EN 13501-1:2007 + A1:2009: Fire classification of construction products and building elements. Classification using test data from reaction to fire tests.

**\* Conditions for the validity of the Documentation of the process IRUFIRE REAL B-s1, d0 AQUA:**

- The company to which the documentation is granted must:
- Select the substrate according to the specifications and carry out the varnishing process according to the provisions of Iurena Group.
  - Relate by means of the corresponding purchase order that the required products have been purchased and used and the necessary quantity thereof, as foreseen in the technical sheet for the classified process.

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